# Contents


Ackerman RA, → Whittow GC, et al. 607
Aida K, → Suzuki Y, et al. 753
Anctil M: Bioactivity of FMRFamide and related peptides on a contractile system of the coelenterate *Renilla köllikeri* 31
Andersen NA, → Jensen FB, et al. 533
Andersson I, → Kiessling K-H, et al. 45
Auer B, → Burtscher HJ, et al. 567
Baddouri Kh, El Hilali M, Marchetti J, Menard J: Renal excretion capacity in hydrated desert rodents (*Jaculus orientalis* and *Jaculus deserti*) 237
Badia P, Lorenzo A, Gomez T, Bolaños A: Sodium chloride absorption across the ileal epithelium of the lizard *Gallotia galloti* 865
Ballam GO, → Coates EL 483
Barra JA, → Simonneaux V, et al. 187
Barrett A, → Youson JH, et al. 731
Bartels H, → Yamaguchi K, et al. 1
Baudinette RV, → Geiser F 335
Baumann E, Penzlin H: Inactivation of neurohormone D by Malpighian tubules in an insect, *Periplaneta americana* 511
Bech C, Rautenberg W, May-Rautenberg B: Thermoregulatory responses of the pigeon (*Columba livia*) to selective changes in the inspired air temperature 747
Beinhauer I, → Wegener G, et al. 315
Bell JG, Buddington RK, Walton MJ, Cowey CB: Studies on the putative role of γ-glutamyl transpeptidase in intestinal transport of amino acids in Atlantic salmon 161
Bennett AF, → John-Alder HB 241
Bennett MB, Rankin JC: The effects of catecholamines on tritiated water influx and the branchial vasculature of the European eel, *Anguilla anguilla* L. 327
Bentley PJ, → Grubb BR, et al. 181
Biesel W, Nachtigall W: Pigeon flight in a wind tunnel. IV. Thermoregulation and water homeostasis 117
Biesel W, → Hirth K-D, et al. 111
Biesel W, → Rothe H-J, et al. 99
Boemare N, → Brehélin M 759
Bolaños A, → Badia P, et al. 865
Bollenbacher WE, → Dorn A, et al. 279
Booth DT, → Seymour RS, et al. 413
Boyer JL, → Grossbard ML, et al. 61
Bradford DF, → Seymour RS 477
Brehélin M, Boemare N: Immune recognition in insects: conflicting effects of autologous plasma and serum 759
Bromhall C: Spider heart-rates and locomotion 451
Bronson FH: Susceptibility of the fat reserves of mice to natural challenges 551
Bucher TL, → Chappell MA 129
Buddington RK: Does the natural diet influence the intestine's ability to regulate glucose absorption? 677
Buddington RK, → Bell JG, et al. 161
Burgoon DA, Kilgore DL Jr, Motta PJ: Brain temperature in the calliope hummingbird (*Stellula calliope*): a species lacking a *rete mirabile ophthalmicum* 583
Burtscher HJ, Schneider R, Klocker H, Auer B, Hirsch-Kauffmann M, Schweiger M: ADP-ribosyltransferase is highly conserved: purification and characterization of ADP-ribosyltransferase from a fish and its comparison with the human enzyme 567
Carey FG, → Wolf NG, et al. 709
Cariolou MA, Morse DE: Purification and characterization of calcium-binding conchiolin shell peptides from the mollusc, *Haliotis rufescens*, as a function of development 717
Carlhoff D, D'Haese J: Slow type muscle cells in the earthworm gizzard with a distinct, $Ca^{2+}$-regulated myosin isoform 589
Carlhoff D, → D'Haese J 171
Castellini MA, Costa DP, Huntley AC: Fatty acid metabolism in fasting elephant seal pups 445
Chamberlin ME: Enzyme activities and mitochondrial substrate oxidation in tobacco hornworm midgut 643
Chappell MA, Bucher TL: Effects of temperature and altitude on ventilation and gas exchange in chukars (*Alectoris chukar*) 129
Chappell MA, Ellis TM: Resting metabolic rates in boid snakes: allometric relationships and temperature effects 227
Chappell MA, Souza SL: Thermoregulation, gas exchange, and ventilation in Adelie penguins (*Pygoscelis adeliae*) 783
Chappell MA, → Ellis TM 393
Chen B, → Haupt J, et al. 883
Cherel Y, → Robin J-P, et al. 491
Cheung R, → Youson JH, et al. 731
Christensen NJ, → Tetens V 667
Coates EL, Ballam GO: Upper airway $CO_2$ receptors in tegu lizards: localization and ventilatory sensitivity 483
Connat J-L, Dotson EM, Diehl PA: Metabolism of ecdysteroids in the female tick *Amblyomma hebraeum* (Ixodoidea, Ixodidae): accumulation of free ecdysone and 20-hydroxyecdysone in the eggs 689
Cooper PD, → Marshall AT 821
Costa DP, → Castellini MA, et al. 445
Cowey CB, → Bell JG, et al. 161
Cox RP, → Weber RE, et al. 145
D'Haese J, Carlhoff D: Localization and histochemical characterization of myosin isoforms in earthworm body wall muscle 171
D'Haese J, Hinssen H: Isolation and characterization of a $Ca^{2+}$-activated actin-modulating protein from obliquely striated muscle 615
D'Haese J, → Carlhoff D 589
Diehl PA, → Connat J-L, et al. 689
Dimberg K, Höglund LB: Carbonic anhydrase activity in the blood and the gills of rainbow trout during long-term hypercapnia in hard, bicarbonate-rich freshwater 405
Dorn A, Gilbert LI, Bollenbacher WE: Prothoracicotropic hormone activity in the embryonic brain of the tobacco hornworm, *Manduca sexta* 279
Dotson EM, → Connat J-L, et al. 689
Drews G, Graszynski K: The transepithelial potential difference in the gills of the fiddler crab, *Uca tangeri:* Influence of some inhibitors 345
Driscoll SM, → Grubb BR, et al. 181
Dunson WA, → Gonzalez RJ 555
El Hilali M, → Baddouri Kh, et al. 237
Elger B, → Elger E, et al. 21
Elger B, → Wolff NA, et al. 573
Elger E, Elger B, Hentschel H, Stolte H: Adaptation of renal function to hypotonic medium in the winter flounder (*Pseudopleuronectes americanus*) 21
Ellis TM, Chappell MA: Metabolism, temperature relations, maternal behavior, and reproductive energetics in the ball python (*Python regius*) 393
Ellis TM, → Chappell MA 227
Evans DL, Rose RJ: Dynamics of cardiorespiratory function in Standardbred horses during different intensities of constant-load exercise 791
Fielder DR, → Gehrke PC 771
Fincke T, → Paul R, et al. 209
Foley WJ: Digestion and energy metabolism in a small arboreal marsupial, the Greater Glider (*Petauroides volans*), fed high-terpene *Eucalyptus* foliage 355
Foley WJ, Hume ID: Digestion and metabolism of high-tannin *Eucalyptus* foliage by the brushtail possum (*Trichosurus vulpecula*) (Marsupialia: Phalangeridae) 67
Follett BK, Nicholls TJ: Acute effect of thyroid hormones in mimicking photoperiodically induced release of gonadotropins in Japanese quail 837
Follett BK, Nicholls TJ, Mayes CR: Thyroxine can mimic photoperiodically induced gonadal growth in Japanese quail 829
Gabrielsen GW, Mehlum F, Karlsen HE: Thermoregulation in four species of arctic seabirds 703
Gaillard S, Rodeau JL: $Na^+/H^+$ exchange in crayfish neurons: dependence on extracellular sodium and pH 435
Gasser KW, Kirschner LB: The inhibition and disposition of intestinal alkaline phosphatase 461
Gasser KW, Kirschner LB: The response of alkaline phosphatase to osmoregulatory changes in the trout, *Salmo gairdneri* 469
Gehrke PC, Fielder DR: Effects of temperature and dissolved oxygen on heart rate, ventilation rate and oxygen consumption of spangled perch, *Leiopotherapon unicolor* (Günther 1859), (Percoidei, Teraponidae) 771
Geiser F, Baudinette RV: Seasonality of tor-

# Contents


Ackerman RA, → Whittow GC, et al. 607
Aida K, → Suzuki Y, et al. 753
Anctil M: Bioactivity of FMRFamide and related peptides on a contractile system of the coelenterate *Renilla köllikeri* 31
Andersen NA, → Jensen FB, et al. 533
Andersson I, → Kiessling K-H, et al. 45
Auer B, → Burtscher HJ, et al. 567
Baddouri Kh, El Hilali M, Marchetti J, Menard J: Renal excretion capacity in hydrated desert rodents (*Jaculus orientalis* and *Jaculus deserti*) 237
Badia P, Lorenzo A, Gomez T, Bolaños A: Sodium chloride absorption across the ileal epithelium of the lizard *Gallotia galloti* 865
Ballam GO, → Coates EL 483
Barra JA, → Simonneaux V, et al. 187
Barrett A, → Youson JH, et al. 731
Bartels H, → Yamaguchi K, et al. 1
Baudinette RV, → Geiser F 335
Baumann E, Penzlin H: Inactivation of neurohormone D by Malpighian tubules in an insect, *Periplaneta americana* 511
Bech C, Rautenberg W, May-Rautenberg B: Thermoregulatory responses of the pigeon (*Columba livia*) to selective changes in the inspired air temperature 747
Beinhauer I, → Wegener G, et al. 315
Bell JG, Buddington RK, Walton MJ, Cowey CB: Studies on the putative role of γ-glutamyl transpeptidase in intestinal transport of amino acids in Atlantic salmon 161
Bennett AF, → John-Alder HB 241
Bennett MB, Rankin JC: The effects of catecholamines on tritiated water influx and the branchial vasculature of the European eel, *Anguilla anguilla* L. 327
Bentley PJ, → Grubb BR, et al. 181
Biesel W, Nachtigall W: Pigeon flight in a wind tunnel. IV. Thermoregulation and water homeostasis 117
Biesel W, → Hirth K-D, et al. 111
Biesel W, → Rothe H-J, et al. 99
Boemare N, → Brehélin M 759
Bolaños A, → Badia P, et al. 865
Bollenbacher WE, → Dorn A, et al. 279
Booth DT, → Seymour RS, et al. 413
Boyer JL, → Grossbard ML, et al. 61
Bradford DF, → Seymour RS 477
Brehélin M, Boemare N: Immune recognition in insects: conflicting effects of autologous plasma and serum 759
Bromhall C: Spider heart-rates and locomotion 451
Bronson FH: Susceptibility of the fat reserves of mice to natural challenges 551
Bucher TL, → Chappell MA 129
Buddington RK: Does the natural diet influence the intestine's ability to regulate glucose absorption? 677
Buddington RK, → Bell JG, et al. 161
Burgoon DA, Kilgore DL Jr, Motta PJ: Brain temperature in the calliope hummingbird (*Stellula calliope*): a species lacking a *rete mirabile ophthalmicum* 583
Burtscher HJ, Schneider R, Klocker H, Auer B, Hirsch-Kauffmann M, Schweiger M: ADP-ribosyltransferase is highly conserved: purification and characterization of ADP-ribosyltransferase from a fish and its comparison with the human enzyme 567
Carey FG, → Wolf NG, et al. 709
Cariolou MA, Morse DE: Purification and characterization of calcium-binding conchiolin shell peptides from the mollusc, *Haliotis rufescens*, as a function of development 717
Carlhoff D, D'Haese J: Slow type muscle cells in the earthworm gizzard with a distinct, $Ca^{2+}$-regulated myosin isoform 589
Carlhoff D, → D'Haese J 171
Castellini MA, Costa DP, Huntley AC: Fatty acid metabolism in fasting elephant seal pups 445
Chamberlin ME: Enzyme activities and mitochondrial substrate oxidation in tobacco hornworm midgut 643
Chappell MA, Bucher TL: Effects of temperature and altitude on ventilation and gas exchange in chukars (*Alectoris chukar*) 129
Chappell MA, Ellis TM: Resting metabolic rates in boid snakes: allometric relationships and temperature effects 227
Chappell MA, Souza SL: Thermoregulation, gas exchange, and ventilation in Adelie penguins (*Pygoscelis adeliae*) 783
Chappell MA, → Ellis TM 393
Chen B, → Haupt J, et al. 883
Cherel Y, → Robin J-P, et al. 491
Cheung R, → Youson JH, et al. 731
Christensen NJ, → Tetens V 667
Coates EL, Ballam GO: Upper airway $CO_2$ receptors in tegu lizards: localization and ventilatory sensitivity 483
Connat J-L, Dotson EM, Diehl PA: Metabolism of ecdysteroids in the female tick *Amblyomma hebraeum* (Ixodoidea, Ixodidae): accumulation of free ecdysone and 20-hydroxyecdysone in the eggs 689
Cooper PD, → Marshall AT 821
Costa DP, → Castellini MA, et al. 445
Cowey CB, → Bell JG, et al. 161
Cox RP, → Weber RE, et al. 145
D'Haese J, Carlhoff D: Localization and histochemical characterization of myosin isoforms in earthworm body wall muscle 171
D'Haese J, Hinssen H: Isolation and characterization of a $Ca^{2+}$-activated actin-modulating protein from obliquely striated muscle 615
D'Haese J, → Carlhoff D 589
Diehl PA, → Connat J-L, et al. 689
Dimberg K, Höglund LB: Carbonic anhydrase activity in the blood and the gills of rainbow trout during long-term hypercapnia in hard, bicarbonate-rich freshwater 405
Dorn A, Gilbert LI, Bollenbacher WE: Prothoracicotropic hormone activity in the embryonic brain of the tobacco hornworm, *Manduca sexta* 279
Dotson EM, → Connat J-L, et al. 689
Drews G, Graszynski K: The transepithelial potential difference in the gills of the fiddler crab, *Uca tangeri:* Influence of some inhibitors 345
Driscoll SM, → Grubb BR, et al. 181
Dunson WA, → Gonzalez RJ 555
El Hilali M, → Baddouri Kh, et al. 237
Elger B, → Elger E, et al. 21
Elger B, → Wolff NA, et al. 573
Elger E, Elger B, Hentschel H, Stolte H: Adaptation of renal function to hypotonic medium in the winter flounder (*Pseudopleuronectes americanus*) 21
Ellis TM, Chappell MA: Metabolism, temperature relations, maternal behavior, and reproductive energetics in the ball python (*Python regius*) 393
Ellis TM, → Chappell MA 227
Evans DL, Rose RJ: Dynamics of cardiorespiratory function in Standardbred horses during different intensities of constant-load exercise 791
Fielder DR, → Gehrke PC 771
Fincke T, → Paul R, et al. 209
Foley WJ: Digestion and energy metabolism in a small arboreal marsupial, the Greater Glider (*Petauroides volans*), fed high-terpene *Eucalyptus* foliage 355
Foley WJ, Hume ID: Digestion and metabolism of high-tannin *Eucalyptus* foliage by the brushtail possum (*Trichosurus vulpecula*) (Marsupialia: Phalangeridae) 67
Follett BK, Nicholls TJ: Acute effect of thyroid hormones in mimicking photoperiodically induced release of gonadotropins in Japanese quail 837
Follett BK, Nicholls TJ, Mayes CR: Thyroxine can mimic photoperiodically induced gonadal growth in Japanese quail 829
Gabrielsen GW, Mehlum F, Karlsen HE: Thermoregulation in four species of arctic seabirds 703
Gaillard S, Rodeau JL: $Na^+/H^+$ exchange in crayfish neurons: dependence on extracellular sodium and pH 435
Gasser KW, Kirschner LB: The inhibition and disposition of intestinal alkaline phosphatase 461
Gasser KW, Kirschner LB: The response of alkaline phosphatase to osmoregulatory changes in the trout, *Salmo gairdneri* 469
Gehrke PC, Fielder DR: Effects of temperature and dissolved oxygen on heart rate, ventilation rate and oxygen consumption of spangled perch, *Leiopotherapon unicolor* (Günther 1859), (Percoidei, Teraponidae) 771
Geiser F, Baudinette RV: Seasonality of tor-

por and thermoregulation in three dasyurid marsupials 335
Géloen A, → Robin J-P, et al. 491
Gilbert LI, → Dorn A, et al. 279
Gilbert LI, → Henrich VC, et al. 543
Girard H, → Robin J-P, et al. 491
Goldspink G, → Heap SP, et al. 219
Goldstein L, → Wolff NA, et al. 573
Gomez T, → Badia P, et al. 865
Gonzalez RJ, Dunson WA: Adaptations of sodium balance to low pH in a sunfish (*Enneacanthus obesus*) from naturally acidic waters 555
Gordon ER, → Grossbard ML, et al. 61
Graszynski K, → Drews G 345
Greenaway P, → Morris S, et al. 873
Grigg GC, Johansen K: Cardiovascular dynamics in *Crocodylus porosus* breathing air and during voluntary aerobic dives 381
Grossbard ML, Boyer JL, Gordon ER: The excretion pattern of biliverdin and bilirubin in bile of the small skate (*Raja erinacea*) 61
Grubb BR, Driscoll SM, Bentley PJ: Electrical PD, short-circuit current and fluxes of Na and Cl across avian intestine 181
Hamilton JM, → Schneider JE, et al. 39
Hanyu I, → Suzuki Y, et al. 753
Happ GM, → Yaginuma T 765
Hardeland R, → Thorey I, et al. 85
Harnau G, → Thorey I, et al. 85
Haupt J, Höhne G, Schwarz H, Chen B, Zhao W, Zhang Y: Chinese whip scorpion using 2-ketones in defense secretion (Arachnida: Uropygi) 883
Heap SP, Watt PW, Goldspink G: Contractile properties of goldfish fin muscles following temperature acclimation 219
Heisler N, → Jensen FB, et al. 533
Heldmaier G, → Saarela S 625
Henrich VC, Pak MD, Gilbert LI: Neural factors that stimulate ecdysteroid synthesis by the larval ring gland of *Drosophila melanogaster* 543
Hentschel H, → Elger E, et al. 21
Hillman SS, Withers PC: The hemodynamic consequences of hemorrhage and hypernatremia in two amphibians 807
Hinssen H, → D'Haese J 615
Hirsch-Kauffmann M, → Burtscher HJ, et al. 567
Hirth K-D, Biesel W, Nachtigall W: Pigeon flight in a wind tunnel. III. Regulation of body temperature 111
Höglund LB, → Dimberg K 405
Höhne G, → Haupt J, et al. 883
Hughes MR: Effect of blood removal and infusion on gull salt gland secretion 261
Humbert W, → Simonneaux V, et al. 187, 295
Hume ID, → Foley WJ 67
Huntley AC, → Castellini MA, et al. 445
Hyde DA, Moon TW, Perry SF: Physiological consequences of prolonged aerial exposure in the American eel, *Anguilla rostrata*: blood respiratory and acid-base status 635
Jensen FB: Influences of exercise-stress and adrenaline upon intra- and extracellular acid-base status, electrolyte composition and respiratory properties of blood in tench (*Tinca tinca*) at different seasons 51
Jensen FB, Weber RE: Thermodynamic analysis of precisely measured oxygen equilibria of tench (*Tinca tinca*) hemoglobin and their dependence on ATP and protons 137
Jensen FB, Andersen NA, Heisler N: Effects of nitrite exposure on blood respiratory properties, acid-base and electrolyte regulation in the carp (*Cyprinus carpio*) 533
Jensen FB, → Weber RE, et al. 145
Johansen K, → Grigg GC 381
John-Alder HB, Bennett AF: Thermal adaptations in lizard muscle function 241
Johnson BA: Structure and function of the hemocyanin from a semi-terrestrial crab, *Ocypode quadrata* 501
Jürgens KD, → Yamaguchi K, et al. 1
Karlsen HE, → Gabrielsen GW, et al. 703
Kauschke E, Mohrig W: Cytotoxic activity in the coelomic fluid of the annelid *Eisenia foetida* Sav. 77
Kiessling K-H, Lundström K, Andersson I, Rydberg A: Changes in neck muscles in Swedish reindeer bucks during rutting season 45
Kilgore DL Jr, → Burgoon DA, et al. 583
King JR, → Webster MD 253
Kinne R, → Wolff NA, et al. 573
Kirsch R, → Simonneaux V, et al. 187, 295
Kirschner LB, → Gasser KW 461, 469
Klee A, → Wegener G, et al. 315
Klocker H, → Burtscher HJ, et al. 567
Kobayashi M, → Suzuki Y, et al. 753
Korochkin LI, → Rauschenbach IYu, et al. 519
Le Maho Y, → Robin J-P, et al. 491
Lighton JRB: Cost of tokking: the energetics of substrate communication in the tok-tok beetle, *Psammodes striatus* 11
Lim BC, McArdle HJ, Morgan EH: Transferrin-receptor interaction and iron uptake by reticulocytes of vertebrate animals – a comparative study 363
Linzen B: Editorial 701
Linzen B: *In memoriam* Kjell Johansen 403
Linzen B, → Paul R, et al. 209
Lorenzo A, → Badia P, et al. 865
Lukashina NS, → Rauschenbach IYu, et al. 519
Lundström K, → Kiessling K-H, et al. 45
Maier L, Root TM, Seyfarth E-A: Heterogeneity of spider leg muscle: Histochemistry and electrophysiology of identified fibers in the claw levator 285
Maksimovsky LF, → Rauschenbach IYu, et al. 519
Marchetti J, → Baddouri Kh, et al. 237
Marshall AT, Cooper PD: Secretory capacity of the lachrymal salt gland of hatchling sea turtles, *Chelonia mydas* 821
Martelo M-J, → Zanders IP 599
Mayes CR, → Follett BK, et al. 829
May-Rautenberg B, → Bech C, et al. 747
McArdle HJ, → Lim BC, et al. 363
McMahon BR, → Morris S, et al. 873
Mehlum F, → Gabrielsen GW, et al. 703
Menard J, → Baddouri Kh, et al. 237
Mohrig W, → Kauschke E 77
Moon TW, → Hyde DA, et al. 635
Morgan EH, → Lim BC, et al. 363
Morris S, Greenaway P, McMahon BR: Oxygen and carbon dioxide transport by the haemocyanin of an amphibious crab, *Holthuisana transversa* 873
Morse DE, → Cariolou MA 717
Motta PJ, → Burgoon DA, et al. 583
Murray TF, Siebenaller JF: Comparison of the binding properties of $A_1$ adenosine receptors in brain membranes of two congeneric marine fishes living at different depths 267
Nachtigall W, → Biesel W 117
Nachtigall W, → Hirth K-D, et al. 111
Nachtigall W, → Rothe H-J 91
Nachtigall W, → Rothe H-J, et al. 99
Newsholme EA, → Wegener G, et al. 315
Nicholls TJ, → Follett BK 837
Nicholls TJ, → Follett BK, et al. 829
Paganelli CV, → Whittow GC, et al. 607
Pak MD, → Henrich VC, et al. 543
Paul R, Fincke T, Linzen B: Respiration in the tarantula *Eurypelma californicum*: evidence for diffusion lungs 209
Penzlin H, → Baumann E 511
Peretz B, → Reilly WM 659
Perry SF, → Hyde DA, et al. 635
Pettit TN, → Whittow GC, et al. 607
Piiper J, → Yamaguchi K, et al. 1
Prinzinger R: Energy metabolism, body-temperature and breathing parameters in non-torpid blue-naped mousebirds *Urocolius macrourus* 801
Rahman MS, Storey KB: Role of covalent modification in the control of glycolytic enzymes in response to environmental anoxia in goldfish 813
Rahn H, → Swart D 845
Rankin JC, → Bennett MB 327
Rauschenbach IYu, Lukashina NS, Maksimovsky LF, Korochkin LI: Stress-like reaction of *Drosophila* to adverse environmental factors 519
Rautenberg W, → Bech C, et al. 747
Reilly WM, Peretz B: Excitation-contraction coupling in non-spiking smooth muscle in the gill of *Aplysia* 659
Robin J-P, Cherel Y, Girard H, Géloen A, Le Maho Y: Uric acid and urea in relation to protein catabolism in long-term fasting geese 491
Rode I, → Thorey I, et al. 85
Rodeau JL, → Gaillard S 435
Rollag MD, → White BH, et al. 153
Root TM, → Maier L, et al. 285
Rose RJ, → Evans DL 791
Roth J, Zeisberger E, Schwandt H-J: Influence of increased catecholamine levels in blood plasma during cold-adaptation and intramuscular infusion on thresholds of thermoregulatory reactions in guinea-pigs 855
Rothe H-J, Nachtigall W: Pigeon flight in a wind tunnel. I. Aspects of wind tunnel de-

sign, training methods and flight behaviour of different pigeon races 91
Rothe H-J, Biesel W, Nachtigall W: Pigeon flight in a wind tunnel. II. Gas exchange and power requirements 99
Rydberg A, → Kiessling K-H, et al. 45
Saarela S, Heldmaier G: Effect of photoperiod and melatonin on cold resistance, thermoregulation and shivering/nonshivering thermogenesis in Japanese quail 625
Sargent PA, → Youson JH, et al. 731
Schneider JE, Hamilton JM, Wade GN: Genetic association between nest building and brown adipose tissue thermogenesis in female house mice 39
Schneider R, → Burtscher HJ, et al. 567
Schwandt H-J, → Roth J, et al. 855
Schwarz H, → Haupt J, et al. 883
Schweiger M, → Burtscher HJ, et al. 567
Sekura RD, → White BH, et al. 153
Seyfarth E-A, → Maier L, et al. 285
Seymour RS, Bradford DF: Gas exchange through the jelly capsule of the terrestrial eggs of the frog, *Pseudophryne bibroni* 477
Seymour RS, Vleck D, Vleck CM, Booth DT: Water relations of buried eggs of mound building birds 413
Shoemaker VH, → Stinner JN 423
Shuttleworth TJ, → Stagg RM 429
Siebenaller JF, → Murray TF 267
Simon E: Effect of acclimation temperature on the elongation step of protein synthesis in different organs of rainbow trout 201
Simonneaux V, Barra JA, Humbert W, Kirsch R: The role of mucus in ion absorption by the oesophagus of the sea-water eel (*Anguilla anguilla* L.). Electrophysiological, structural and cytochemical investigations 187
Simonneaux V, Humbert W, Kirsch R: Mucus and intestinal ion exchanges in the sea-water adapted eel, *Anguilla anguilla* L. 295
Souza SL, → Chappell MA 783
Stagg RM, Shuttleworth TJ: Sites of interactions of surfactants with beta-adrenergic responses in trout (*Salmo gairdneri*) gills 429
Stinner JN: Gas exchange and air flow in the lung of the snake, *Pituophis melanoleucus* 307
Stinner JN, Shoemaker VH: Cutaneous gas exchange and low evaporative water loss in the frogs *Phyllomedusa sauvagei* and *Chiromantis xerampelina* 423
Stolte H, → Elger E, et al. 21
Storey KB: Glycolysis and the regulation of cryoprotectant synthesis in liver of the freeze tolerant wood frog 373
Storey KB, → Rahman MS 813
Suzuki Y, Kobayashi M, Aida K, Hanyu I: Transport of physiologically active salmon gonadotropin into the circulation in goldfish, following oral administration of salmon pituitary extract 753
Swart D, Rahn H: Microclimate of ostrich nests: measurements of egg temperature and nest humidity using egg hygrometers 845
Swift PR, → Wolf NG, et al. 709
Tetens V, Christensen NJ: Beta-adrenergic control of blood oxygen affinity in acutely hypoxia exposed rainbow trout 667
Thorey I, Rode I, Harnau G, Hardeland R: Conditionality of phase resetting by inhibitors of 80 S translation in *Gonyaulax polyedra* 85
Vleck CM, → Seymour RS, et al. 413
Vleck D, → Seymour RS, et al. 413
Wade GN, → Schneider JE, et al. 39
Walton MJ, → Bell JG, et al. 161
Watt PW, → Heap SP, et al. 219
Weber RE, Jensen FB, Cox RP: Analysis of teleost hemoglobin by Adair and Monod-Wyman-Changeux models. Effects of nucleoside triphosphates and pH on oxygenation of tench hemoglobin 145
Weber RE, → Jensen FB 137
Webster MD, King JR: Temperature and humidity dynamics of cutaneous and respiratory evaporation in pigeons, *Columba livia* 253
Wegener G, Beinhauer I, Klee A, Newsholme EA: Properties of locust muscle 6-phosphofructokinase and their importance in the regulation of glycolytic flux during prolonged flight 315
White BH, Sekura RD, Rollag MD: Pertussis toxin blocks melatonin-induced pigment aggregation in *Xenopus* dermal melanophores 153
Whittow GC, Pettit TN, Ackerman RA, Paganelli CV: Temperature regulation in a burrow-nesting tropical seabird, the Wedge-tailed Shearwater (*Puffinus pacificus*) 607
Wilkens JL: Tonic force maintenance after decay of active state in brachiopod smooth adductor muscle 651
Withers PC, → Hillman SS 807
Wolf NG, Swift PR, Carey FG: Swimming muscle helps warm the brain of lamnid sharks 709
Wolff NA, Kinne R, Elger B, Goldstein L: Renal handling of taurine, L-alanine, L-glutamate and D-glucose in *Opsanus tau*: studies on isolated brush border membrane vesicles 573
Yaginuma T, Happ GM: Trehalase from the bean-shaped accessory glands and the spermatophore of the male mealworm beetle, *Tenebrio molitor* 765
Yamaguchi K, Jürgens KD, Bartels H, Piiper J: Oxygen transfer properties and dimensions of red blood cells in high-altitude camelids, dromedary camel and goat 1
Youson JH, Sargent PA, Barrett A, Cheung R: Distribution of $^{55}Fe$ in juvenile adult lampreys, *Petromyzon marinus* L., following oral intubation of the isotope 731
Zanders IP, Martelo M-J: Contribution of Na/Na and Cl/Cl exchanges to sodium and chloride fluxes in the crab *Goniopsis cruentata* 599
Zeisberger E, → Roth J, et al. 855
Zhang Y, → Haupt J, et al. 883
Zhao W, → Haupt J, et al. 883

Indexed in *Current Contents*